

We claim:

1. A medical drape comprising:

5 a backing layer having a first surface and a second surface, where projecting from the first surface of the backing layer is an array of stems;

wherein at least a portion of the exterior surface of the stems comprises an elastomeric material.

2. The medical drape of claim 1 wherein the stems are generally upstanding.

3. The medical drape of claim 1 wherein the elastomeric material is thermoplastic.

4. The medical drape of claim 1 wherein the Stainless Steel Static Coefficient of Friction when dry along at least a portion of the first surface is at least 0.6.

5. The medical drape of claim 1 wherein the Stainless Steel Static Coefficient of Friction when wet is within 20 percent of the Stainless Steel Static Coefficient of Friction when dry.

6. The medical drape of claim 1 wherein the Stainless Steel Static Coefficient of Friction when wet is within 80 percent of the Stainless Steel Static Coefficient of Friction when dry.

7. The medical drape of claim 1 wherein Stainless Steel Static Coefficient of Friction when wet is within 90 percent of the Stainless Steel Static Coefficient of Friction when dry.

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8. The medical drape of claim 1 wherein protruding from the second surface of the backing layer is a second array of stems.

5 9. The medical drape of claim 1 further comprising a second backing layer adjacent to the second surface of the first backing layer, where projecting from the second backing layer is a second array of stems.

10. The medical drape of claim 9 wherein at least a portion of the exterior surface
10 of the stems of the second array comprises an elastomeric material.

11. The medical drape of claim 9 further comprising a reinforcing layer disposed between the first and second backing layers.

15 12. The medical drape of claim 11 wherein the reinforcing layer is a nonwoven scrim material.

13. The medical drape of claim 11 wherein the reinforcing layer is a woven scrim material.

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14. The medical drape of claim 1 further comprising a reinforcing layer adjacent to the second surface of the backing layer.

15. The medical drape of claim 14 wherein the reinforcing layer is a nonwoven
25 scrim material.

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16. The medical drape of claim 14 wherein the reinforcing layer is a woven scrim material.

5 17. The medical drape of claim 14 further comprising a second backing layer adjacent to the reinforcing layer, where projecting from the second backing layer is a second array of stems.

18. The medical drape of claim 17 wherein at least a portion of the exterior surface
10 of the stems of the second array comprises an elastomeric material.

19. The medical drape of claim 1 further comprising micro-channels between the stems along at least a portion of the exterior of the first surface of the backing layer.

15 20. The medical drape of claim 1 wherein the density of the stems on the first surface of the backing layer is at least 15.5 stems/cm².

21. The medical drape of claim 1 wherein the aspect ratio of the stems on the first surface of the backing layer is at least 1.25.

$\frac{\text{stem height}}{\text{stem diameter}}$

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22. The medical drape of claim 1 wherein the elastomeric material is selected from the group consisting of: anionic triblock copolymers; polyolefin-based thermoplastic elastomers; thermoplastic elastomers based on halogen-containing polyolefins; thermoplastic elastomers based on dynamically vulcanized elastomer-thermoplastic blends; thermoplastic polyether ester and polyester based elastomers; thermoplastic elastomers based on polyamides or polyimides; ionomeric thermoplastic elastomers;

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hydrogenated block copolymers in thermoplastic elastomer interpenetrating polymer networks; thermoplastic elastomers made by carbocationic polymerization; polymer blends containing styrene/hydrogenated butadiene block copolymers; polyacrylate-based thermoplastic elastomers; natural rubbers; butyl rubbers; EPDM rubbers; silicone rubbers; polyisoprenes; polybutadienes; polyurethanes; ethylene/propylene/diene terpolymer elastomers; chloroprene rubbers; random and block styrene-butadiene copolymers; random and block styrene-isoprene copolymers; acrylonitrile-butadiene copolymers; and mixtures and copolymers thereof.

23. The medical drape of claim 1 wherein the elastomeric material further comprises at least one antioxidant.

24. A medical drape comprising:
a backing layer having a first surface and a second surface, where projecting from the first surface of the backing layer is an array of stems;
wherein the Stainless Steel Static Coefficient of Friction dry along at least a portion of the first surface is at least 0.6.